

Vector-Borne Diseases Surveillance Bulletin # 32

Arbovirus Surveillance - Week 49 Friday, December 06, 2002

Suspect Human cases of Meningitis/Encephalitis			Suspect Equine Viral Encephalitis		Mosquito pools tested for virus (final results) *					Chicken Sera tested for antibody *		
Time Period	Number tested		Number Positive		Total Number	WEE Positive	SLE Positive	Other Positive	Total Positive	Total Number	WEE Pos.	SLE Pos.
	WEE	/SLE	WEE	/SLE								
Week	33	/ 33	0	/ 0	20	0	0	0	0	221	1	0
YTD	417	/ 417	0	/ 0	55	1	8	1	36	24106	52	45

CALIFORNIA.

{Dried blood spot specimens from sentinel chickens are submitted each week to the DHS Viral and Rickettsial Disease Laboratory (VRDL) and tested for the presence of antibodies to western equine encephalomyelitis (WEE) and St. Louis encephalitis (SLE) viruses by EIA and IFA. The test for SLE detects antibody to other viruses in the Flavivirus group including West Nile virus (WNV). The VRDL forwards serum specimens from sentinel chicken in which SLE antibodies are detected to the Davis Arbovirus Research Unit (DARU) for additional testing for WNV antibodies by a different ELISA and plaque reduction neutralization test (PRNT). DARU also conducts viral cultures for WEE and SLE on all submitted mosquitoes. All mosquito pools in which SLE is detected are subsequently tested for WNV. Additional viral testing may include RT-PCR of mosquito pools for California encephalitis virus, dengue, and Japanese B encephalitis as appropriate.}

NOTE TO LOCAL AGENCIES:

The cost for chicken sera testing in 2003 probably will be \$7.20 (\$6.50 in 2002) per sample for routine testing on filter paper. This price includes testing for flaviviruses (SLE and WNV) and WEE. Preliminary confirmation will be provided for SLE, WNV, and WEE as needed by VRDL with neutralization tests still being done by DARU.

The sentinel chicken program will start in April 2003 with southern agencies picking up white leghorns from Demler's in San Jacinto on April 2nd and northern agencies picking up red leghorns from Haley's in Modesto on April 9th. (There was a consensus at the MVCAC Retreat/Workshop this week to use the red leghorns for the "northern" agencies. Any northern agency that prefers white leghorns should contact DHS.)

The cost for mosquito pool testing in 2003 is still being evaluated. Once a cost has been determined, DHS will notify local agencies by e-mail or fax.

HUMAN CASES OF WEST NILE ENCEPHALITIS/ASEPTIC MENINGITIS

No new cases this week.

Acquired in California = 1 (Los Angeles County)

Imported into California = 6

WN encephalitis: Texas resident in Los Angeles County

WN encephalitis: India resident traveled to Wisconsin

WN meningitis: Orange County individual traveled to Nebraska

WN Fever: San Francisco County individual traveled to Washington, D.C.

WN Fever: Ventura County resident traveled to Florida

WN associated Acute Flaccid Paralysis: Kansas resident traveled to Los Angeles

EQUINE CASES OF WEST NILE VIRUS

Acquired in California = 0

Imported into California = 1 (from Nebraska)

CHICKEN SEROCONVERSIONS THIS WEEK: SLE = 0, WEE = 1

YTD: SLE = 45, WEE = 52, WNV = 0

Reports of negative test results received from local agencies on their sentinel flocks:

Sacramento-Yolo MVCD = 86 chickens from 10 flocks bled on December 2nd. YTD = 1406

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San Gabriel Valley MVCD = 55 chickens from 10 flocks bled on November 14th and again on November 25th. YTD = 1268.

POSITIVE MOSQUITO POOLS THIS WEEK: SLE = 0, WEE = 0, Bunyavirus = 0

YTD: SLE = 8, WEE = 27, WNV = 0, Bunyavirus = 1

CALIFORNIA WEBSITE FOR WEST NILE VIRUS: <http://www.westnile.ca.gov>

In addition to information on WNV and the California program, this website maintains a weekly updated map of states with WNV activity in 2002 indicating the number of human cases by state.

DEAD BIRD SURVEILLANCE: NO BIRDS HAVE TESTED POSITIVE FOR WNV IN 2002!

The lists below are a summary of dead birds reported to DHS for WNV testing for Week 47 (November 17 – 23, 2002) and Week 48 (November 24 – 30, 2002). The number in parenthesis represents those actually submitted for testing.

Week 47

Alameda: turkey, 1 – Contra Costa: red shafted flicker, 1; sparrow, 1 – Humboldt: sparrow, 1 (1) – Los Angeles: crow, 6 (3); duck, 1; pigeon, 1; sparrow, 2 (2) – Napa: crow, 1; Northern harrier, 2 (2) – Nevada: junco, 1 – Riverside: crow, 1 – Sacramento: goose, 1; magpie, 1 – San Bernardino: crow, 1 (1); quail, 1; raven, 1 (1) – San Diego: pheasant, 1 (1); sharp-shinned hawk, 1 (1) – San Mateo: quail, 1 – Santa Clara: thrush, 1 (1) – Santa Cruz: finch, 1 – Sonoma: sparrow, 1 (1) – Sutter: crow, 1; unknown, 1 – Tehama: jay, 1 – Yolo: crow, 1 – Unknown: chicken, 1

Weekly Totals: 35 Reported (14 Tested)

Year to Date Totals: 3,503 Reported (658 Tested)

Week 48

Inyo: Brewer's blackbird, 3 – Los Angeles: crow, 2; hawk, 1 (1); sparrow, 2 (1) – Merced: crow, 1 (1) – Placer: woodpecker, 1 – Riverside: crow, 1 (1); raven, 1 – Sacramento: crow, 1; hawk, 2 (1); pigeon, 1; unknown, 1 – San Bernadino: blackbird, 1 – San Diego: crow, 3 (3); hawk, 1 (1); owl, 2 (1); pigeon, 1; sparrow, 1 (1); western bluebird, 1 (1) – San Francisco: red tailed hawk, 1 (1) – San Luis Obispo: blackbird, 1 (1) – Santa Cruz: canary, 4; finch, 3 – Solano: blackbird, 1 – Sonoma: crow, 1; jay, 1 – Tulare: jay, 2 – Ventura: sandpiper, 1 – Yolo: blackbird, 1; sparrow, 1 (1); thrush, 1 – Yuba: crow, 1 (1) –

Weekly Totals: 46 Reported (16 Tested)

Year to Date Totals: 3,549 Reported (674 Tested)

Go to the California Vector Website for updated maps of flock sites, test results, and other vector-borne disease information.
<http://vector.ucdavis.edu/surveillance/default.html>

Chicken seroconversions reported this week

Virus	County	State	Acode	City	Location	
WEE	IMPERIAL	CA	IMPR0010	Niland	Wister	
Bands:	2794				Bled: 25-Nov-02	Received: 03-Dec-02
**** = new flock this week						

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Chicken sera received and tested this week:

County	State	ACODE	Total Flocks	Date Bled	Date Received	Total Chickens
IMPERIAL	CA	IMPR	3	29-Apr-02	03-Dec-02	32
LOS ANGELES	CA	GRLA	1	27-Nov-02	03-Dec-02	10
ORANGE	CA	ORCO	1	26-Nov-02	03-Dec-02	9
RIVERSIDE	CA	COAV	9	25-Nov-02	03-Dec-02	88
RIVERSIDE	CA	RIVR	5	01-May-02	03-Dec-02	48
SAN BERNARDINO	CA	WVAL	3	27-Nov-02	03-Dec-02	19
SAN DIEGO	CA	SAND	2	25-Nov-02	03-Dec-02	20

Mosquito pools received this week:

Prepared by the Vector-Borne Disease Section (Disease Investigations and Surveillance Branch) and Viral and Rickettsial Disease Laboratory Branch, Division of Communicable Disease Control, California Department of Health Services, 2151 Berkeley Way, Berkeley, CA 94704. Questions concerning this bulletin should be addressed to Stan Husted by phone (510) 540-2712, FAX (510) 540-3666, or e-mail [SHUSTED@DHS.CA.GOV].